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basic imagery interpretation report

Soviet Mobile Missile Summary

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Deployed Strategic SSM Facilities

BE: Various

USSR

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Soviet Mobile Missile Summary

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LIST OF ACRONYMS AND ABBREVIATIONS*This list in its entirety is UNCLASSIFIED*

AAD	Azimuth alignment device
C3	Command, control, and communications
CSF	Complex support facilities
FTA	Field-training area
GSE	Ground support equipment
HP/TD	Hardpoint/tiedown
ICBM	Intercontinental ballistic missile
IRBM	Intermediate-range ballistic missile
KM	Kilometer
LAD	Launch assist device
LRP	Launch reference position
LTS	Launch test site
MRB	Missile-ready building/bunker
MRBM	Medium-range ballistic missile
MSTC	Missile/space test center
MSV	Missile support van
MTC	Missile test center
NM	Nautical mile(s)
NPHF	Nuclear payload handling facility
NPIC	National Photographic Interpretation Center
NWHF	Nuclear warhead handling facility
PBV	Postboost vehicle
PGCS	Propulsion guidance control section
POE	Piece(s) of equipment
R&D	Research and development
RIM	Receiving, inspection, and maintenance
RTP	Rail-to-road transfer point
RVT	Revetment
SBG	Single-bay garage
SMRA	Silo materials receiving area
SRF	Strategic Rocket Forces
SSM	Surface-to-surface missile
TEL	Transporter-erector-launcher
TSA	Temporary support area
UHF/VHF	Ultra-high-frequency/very-high-frequency

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SOVIET MOBILE MISSILE SUMMARY

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SUMMARY

1. (S/D) This report updates information in NPIC report [] on SS-20 mobile IRBM bases in the USSR.¹ This report also includes a synopsis of significant mobile missile activity seen at two offensive MTCs; three missile-related research, development, and production facilities; and several command and control facilities (Figure 1).

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2. (S/D) Significant activity during the reporting period included the following:

- a. the identification of a new, scratch-built mobile base at Novosibirsk;
- b. the identification of support rings on an empty SS-20 TEL at Verkhnyaya Salda RTP;
- c. the identification of a new mobile base at Krolevets;
- d. the identification of probable SS-20-associated camouflaged vehicles at Lutsk MRBM Launch Site 1;
- e. SS-20 field-training exercises at three complexes;
- f. the continuation of priority snow removal at SS-16 LRPs at Plesetsk; and
- g. several command-and-control developments.

3. (U) The reporting period extends from [] A location map, eight annotated photographs, and four tables are included in this report.

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DISCUSSION

Deployed Complexes

4. (S/D) As of [] 32 of the 40 mobile bases were in the late stages of construction or complete and were assessed to be capable of maintaining an operational unit (Table 1). Based on past construction practices, the 40 bases, including the remote site at Drovyanaya, will eventually contain a total of 363 SBGs to house SS-20 missiles on launchers. Six bases are in the eastern section of Siberia, six are in the western section of Siberia, ten are in the central USSR, and 18 are in the western section of the USSR.*

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Eastern Siberia

5. (S/D) **Drovyanaya Mobile IRBM Base 4.** On [] an SS-20 TEL with an SS-20 training canister was in the operations area in front of a former SS-7 MRB. This was the first time that SS-20-related equipment has been observed at this mobile IRBM base.

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6. (TSR) SS-20 field-training exercises in the Drovyanaya Complex were as follows:

Location	Date	Remarks
FTA 3A []	[]	Camouflaged C3 unit
FTA 3B-Rvt []		Camouflaged SS-20 launch unit
FTA 3C []		Camouflaged SS-20 launch unit
FTA 5A-Rvt []		Camouflaged SS-20 launch unit
FTA 5B-Rvt []		Camouflaged SS-20 unit of unk type
FTA 5C []		3 camouflaged SS-20-associated vehs
		Camouflaged SS-20 launch unit

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*After the cutoff date for this report, Kivertsy Mobile IRBM Base 1 and Olovyanaya Mobile IRBM Base 1 were reevaluated; these two facilities, previously identified as SS-20 bases under construction, will no longer be counted as mobile bases. This reduces the total number of SS-20 bases, either operational or under construction, from 40 to 38. This change is not reflected in this report but will be in the next Soviet Mobile Missile Summary, []

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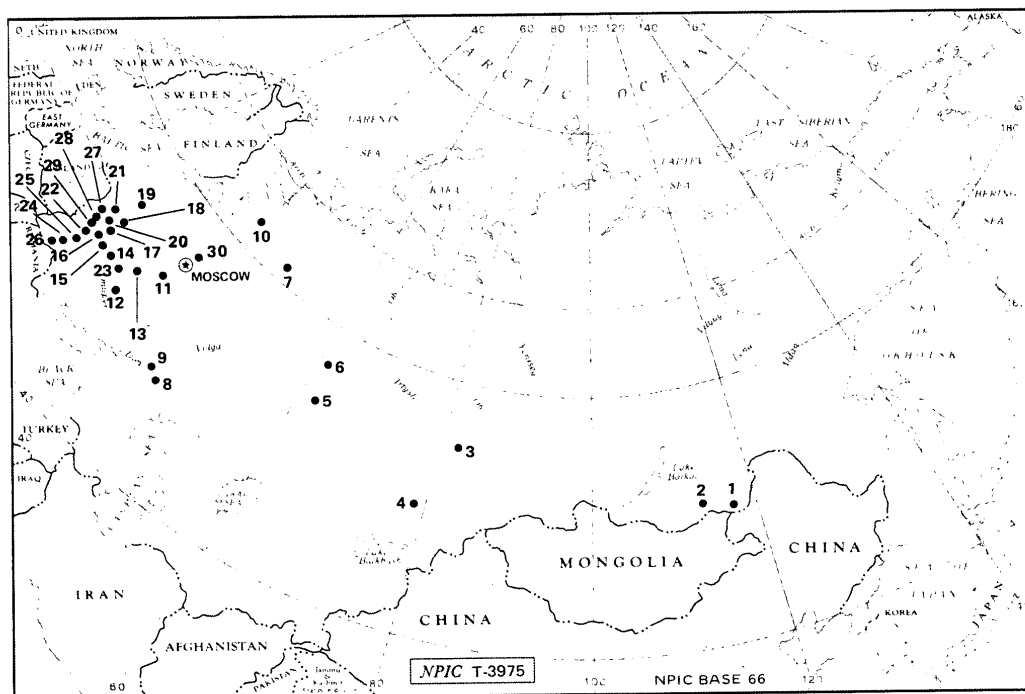


FIGURE 1. LOCATIONS OF SS-16/-20 ACTIVITY IN THE USSR

Item	Installation Name	BE No
1	Olovyanaya Mobile IRBM Base 1	
2	Drovyannaya Mobile IRBM Base 1	
	Drovyannaya Mobile IRBM Base 2	
	Drovyannaya Mobile IRBM Base 3	
	Drovyannaya Mobile IRBM Base 4	
	Drovyannaya Mobile IRBM Base 5	
	Drovyannaya SS-20 Remote Site 1	
3	Novosibirsk Mobile IRBM Base 1	
	Novosibirsk Mobile IRBM Base 2	
	Novosibirsk Mobile IRBM Base 3	
	Novosibirsk Mobile IRBM Base 4	
	Novosibirsk Mobile IRBM Base 5	
	Novosibirsk Mobile IRBM Base 6	
4	Semipalatinsk NWPG	
5	Bobrovskiy Missile-Support Rear Depot	
6	Verkhnyaya Salda Mobile IRBM Base 1	
	Verkhnyaya Salda Mobile IRBM Base 2	
	Verkhnyaya Salda Mobile IRBM Base 3	
	Verkhnyaya Salda Mobile IRBM Base 4	
	Verkhnyaya Salda Mobile IRBM Base 5	
7	Yurya Mobile IRBM Base 1	
	Yurya Mobile IRBM Base 2	
	Yurya Mobile IRBM Base 3	
	Yurya Mobile IRBM Base 4	
	Yurya Mobile IRBM Base 5	
8	Kapustin Yar Missile/Space Test Center SSM	
9	Volgograd Steel and Machinery Plant	
	Krasnyy Barricada 221	
10	Plesetsk Missile/Space Test Center SSM	
11	Serpukhov SSM Engineering Research Training Facility	
12	Lebedin Mobile IRBM Base 1	
13	Bryansk Guided Missile Support Equipment Plant II	
14	Rechitsa Mobile IRBM Support Base	
	Rechitsa Mobile IRBM Base 1A	
	Rechitsa Mobile IRBM Base 1B	
	Rechitsa Mobile IRBM Base 1C	
15	Mozyr Mobile IRBM Base/Training Facility	
16	Konkovich Mobile IRBM Base	
17	Gresk Mobile IRBM Base 1	
18	Postavy Mobile IRBM Base	
19	Polotsk Mobile IRBM Base 1	
	Polotsk Mobile IRBM Base 2	
20	Minsk Motor Vehicle and Guided Missile Support Plant	
21	Smorgon Mobile IRBM Base 1	
	Smorgon Mobile IRBM Base 2	
22	Kozhanovich Mobile IRBM Base	
23	Krolevets Mobile IRBM Base 1	
24	Kivertsy Mobile IRBM Base 1	
25	Kivertsy Mobile IRBM Base 2	
26	Lutsk Mobile IRBM Base 1	
27	Lida Mobile IRBM Base 1	
28	Dyatlovo Mobile IRBM Base 1	
29	Slonim Mobile IRBM Base 1	
30	Krasnoarmeysk Solid Motor Development Facility	

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Table 1. Summary of SS-20 Construction at Deployed Areas
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	OPERATIONS AREA										GENERAL SUPPORT AREA/NUCLEAR PAYLOAD HANDLING FACILITY										Status of Construction at RTP	Remarks/Comments			
	SSM	First Identified	Date Assessed as Being Operational	Date Last Inspected	Single-Bay Garage		3-Bay Garage		4-Bay Garage		5-Bay Garage		11-Bay Garage		11-Bay Garage (66 x 18m)		Tech Support Bldg		High 2-Bay Bldg					Clerestory Bldg	
					Comp	Ucon	Comp	Ucon	Comp	Ucon	Comp	Ucon	Comp	Ucon	Comp	Ucon	Number	Construction Comp	Number	Construction Comp				Number	Construction Comp
EASTERN USSR	Droynaya Mobile IRBM Base 1	Jul 76	Sep 77		9	—	3	—	—	—	—	—	1	—	1	Yes	0*	—	0*	—	0*	—	Clerestory bldg ucon		
	Droynaya Mobile IRBM Base 2	Jan 77	Jun 78		9	—	3	—	—	—	—	—	0	—	2	Yes	0*	—	0*	—	0*	—	1 admin/personnel bldg ucon in spt area		
	Droynaya Mobile IRBM Base 3	Nov 77	Dec 78		9	—	3	—	—	—	—	—	0	—	2	Yes	0*	—	0*	—	0*	—			
	Droynaya Mobile IRBM Base 4	Nov 78	Nov 81		9	—	—	—	3	—	—	—	0	—	2	Yes	0*	—	0*	—	0*	—	1 multibay garage, & 1 admin/personnel bldg ucon in spt area; TEL with training center in ops area on first identification of SS-20 equipment at this base		
	Droynaya Mobile IRBM Base 5	Apr 78	Mar 80		9	—	3	—	—	—	—	—	0	—	2	Yes	0*	—	0*	—	0*	—			
	Droynaya Remote Site 1	Aug 79	—		3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	Chaykovskaya Mobile IRBM Base 1	May 79	—		0	9	0	3	—	—	—	—	0	—	0	—	0	—	0	—	0	—			
	Novosibirsk Mobile IRBM Base 1	Jan 77	Jun 78		9	—	—	—	3	—	—	—	0	—	2	Yes	0*	—	0*	—	0*	—	Complete	C-shaped bldg ucon	
	Novosibirsk Mobile IRBM Base 2	Dec 77	Nov 78		9	—	—	—	3	—	—	—	0	—	2	Yes	0*	—	0*	—	0*	—	1 personnel/admin bldg ucon in spt area		
	Novosibirsk Mobile IRBM Base 3	Jun 78	Nov 79		9	—	—	—	3	—	—	—	0	—	2	Yes	0*	—	0*	—	0*	—			
CENTRAL USSR	Novosibirsk Mobile IRBM Base 4	Dec 79	Dec 80		9	—	—	—	3	—	—	0	—	1	Yes	0*	—	0*	—	0*	—				
	Novosibirsk Mobile IRBM Base 5	Oct 80	Aug 81		9	—	—	—	3	—	—	0	—	2	Yes	0*	—	0*	—	0*	—				
	Novosibirsk Mobile IRBM Base 6	Dec 81	—		—	9	—	—	—	—	—	3	—	—	2**	No	—	—	—	—	—				
	Vorkhnyaya Salda Mobile IRBM Base 1	Feb 78	Jan 79		9	—	3	—	—	—	—	0	—	2	Yes	0*	—	0*	—	0*	—	Complete			
	Vorkhnyaya Salda Mobile IRBM Base 2	Jan 79	Nov 79		9	—	3	—	—	—	—	0	—	2	Yes	0*	—	0*	—	0*	—				
	Vorkhnyaya Salda Mobile IRBM Base 3	Nov 79	Dec 80		9	—	3	—	—	—	—	0	—	1	Yes	0*	—	0*	—	0*	—				
	Vorkhnyaya Salda Mobile IRBM Base 4	Mar 80	Dec 80		9	—	3	—	—	—	—	0	—	0	—	0*	—	0*	—	0*	—	At least 1 of the old SS-7 barracks was removed, & an apartment bldg has been built			
	Vorkhnyaya Salda Mobile IRBM Base 5	Apr 81	Nov 81		9	—	3	—	—	—	—	0	—	1	No	0*	—	0*	—	0*	—				
	Yurya Mobile IRBM Base 1	Apr 78	Jan 79		9	—	3	—	—	—	—	0	—	1	Yes	0*	—	0*	—	0*	—	Complete			
	Yurya Mobile IRBM Base 2	Jan 79	Jan 80		9	—	3	—	—	—	—	0	—	1	Yes	0*	—	0*	—	0*	—				
WESTERN USSR	Yurya Mobile IRBM Base 3	Dec 79	Dec 80		9	—	3	—	—	—	—	0	—	1	Yes	0*	—	0*	—	0*	—				
	Yurya Mobile IRBM Base 4	May 80	Mar 81		9	—	3	—	—	—	—	0	—	1	Yes	0*	—	0*	—	0*	—				
	Yurya Mobile IRBM Base 5	Apr 81	Dec 81		9	—	3	—	—	—	—	0	—	1	Yes	0*	—	0*	—	0*	—				
	Koslovskaya Mobile IRBM Base	Nov 75	Jan 78		9	—	3	—	—	—	—	1	—	2	Yes	1	Yes	1	Yes	1	Yes	Complete	Several bldg ucon in spt area		
	Koshanovskaya Mobile IRBM Base	Jul 76	Jun 78		9	—	3	—	—	—	—	1	—	2	Yes	1	Yes	1	Yes	1	Yes	Complete	C-shaped bldg completed		
	Krolavets Mobile IRBM Base	Dec 81	—		9	—	—	—	0	3	—	—	—	—	—	—	—	—	—	—	—				
	Mozny Mobile IRBM Base Training Facility	Oct 76	Jun 78		9	—	3	—	—	—	—	0	—	3	Yes	1	Yes	1	Yes	1	Yes	Complete	Tenth single-bay garage adjacent to clerestory bldg; additions to 1 single-bay in ops area have been removed		
	Postavy Mobile IRBM Base	Oct 77	Jun 78		9	—	3	—	—	—	—	0	—	2	Yes	1	Yes	1	Yes	1	Yes	Complete; heliport, runway/apron, ucon			
	Smolensk Mobile IRBM Base 1	Apr 78	Jan 79		9	—	—	—	3	—	—	—	0	—	2	Yes	1	Yes	1	Yes	0	—	Complete	6-bay garage ucon in ops area	
	Smolensk Mobile IRBM Base 2	Aug 79	Jan 81		9	—	—	—	3	—	—	—	0	—	1	Yes	0	—	0	—	0	—			
WESTERN USSR	Rechitsa Mobile IRBM Support Base	Sep 78	Mar 80		—	—	—	—	—	—	—	—	—	2	Yes	1	Yes	1	Yes	1	Yes	Complete	Several bldgs ucon in spt area; NWSP ucon		
	Rechitsa Mobile IRBM Base 1A	Aug 79	Mar 80		3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
	Rechitsa Mobile IRBM Base 1B	Aug 79	Mar 80		3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
	Rechitsa Mobile IRBM Base 1C	Aug 79	Mar 80		3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
	Paluski Mobile IRBM Base 1	Oct 78	Jan 80		9	—	3	—	—	—	—	0	—	2	Yes	1	Yes	1	—	1	Yes	Complete			
	Paluski Mobile IRBM Base 2	Aug 79	Jan 81		9	—	3	—	—	—	—	0	—	1	Yes	0	—	0	—	0	—				
	Lida Mobile IRBM Base 1	Jun 80	Apr 81		9	—	—	—	3	—	—	—	0	—	1	Yes	0	—	0	—	0	—	Several bldgs ucon in spt area		
	Gresh Mobile IRBM Base 1	Aug 80	Apr 81		9	—	—	—	3	—	—	—	0	—	1	Yes	1	No	1	No	1	No			
	Linka Mobile IRBM Base 1	Jan 81	—		0	—	—	—	3	—	—	—	0	—	1	No	0	—	0	No	0	No	5 bldgs ucon in spt area; NPHF ucon		
	Kivertsi Mobile IRBM Base 2	Nov 81	—		4	5	—	—	0	3	—	—	0	—	1	No	0	—	0	—	0	—			
Lebedin Mobile IRBM Base 1		Feb 81	—		8	1	—	—	0	3	—	—	0	—	1	No	0	—	0	—	0	—	Two TSA at RTP		
Dyatovo Mobile IRBM Base 1		Mar 81	Jun 82		9	0	—	—	3	—	—	—	0	1	0	—	0	—	0	—	0	—			
Stasin Mobile IRBM Base 1		Mar 81	Mar 82		9	0	—	—	3	—	—	—	0	—	1	Yes	0	—	0	—	0	—			

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Location	Date	Remarks
2 nm NW of MOB 5 at 51-26-31N 112-49-08E		Camouflaged SS-20 launch unit
3 nm NW of MOB 5 at 51-26-43N 112-50-03E		Camouflaged SS-20 launch unit
Between MOB 5 & FTA 5C		Camouflaged SS-20 launch unit 1 camouflaged SS-20-associated veh remained
2 nm N of MOB 5 at 51-25-48N 112-50-32E		Camouflaged SS-20 launch unit
2 nm SW of MOB 4 at 51-22-59N 112-45-41E		At least 8 camouflaged SS-20-associated vehs Camouflaged SS-20 launch unit
3.4 nm SW of MOB 4 at 51-23-16N 112-45-01E		At least 6 camouflaged SS-20-associated vehs
2 nm W of MOB 5 at 51-24-14N 112-49-42E		Prob camouflaged C3 unit Camouflaged SS-20 launch unit
FTA RC		Camouflaged SS-20 launch unit

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Western Siberia

7. (S/D) **Novosibirsk Mobile IRBM Base 6.** A new SS-20 base, designated Novosibirsk Mobile IRBM Base 6 (Figure 2), was identified under construction in January 1982. This new base is the 40th base identified in the Soviet Union to date and the sixth at Novosibirsk. The base is a scratch-built facility, approximately 1 nm southeast of the Novosibirsk IRBM RTP (), at 55-15-30N 083-03-45E. The Novosibirsk Complex supports five operational SS-20 bases, all of which were constructed at dismantled SS-7 ICBM launch sites.

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8. (S/D) Buildings were first observed under construction on () however, security fences were observed under construction on (). No activity was observed on (). Foundations for nine SBGs, three five-bay garages, and two 10-bay garages were present on ().

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9. (S/D) **Novosibirsk IRBM RTP.** On () an SS-20 TEL with training canister was on a road approximately 1 nm north of the RTP. On () an object, approximately () in height, was in front and to the right of the parked TEL. The object's height and relative position suggest that the object might have been an AAD.

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10. (S/D) SS-20 field-training exercises in the Novosibirsk Complex were as follows:

Location	Remarks
FTA RB-Rvt	1 poss camouflaged SS-20-associated veh
0.6 nm NE of the RTP, at 51-18-08N 082-59-14E	Prob camouflaged C3 unit Camouflaged prob SS-20 launch unit
East of security fence at MOB 2	Prob camouflaged SS-20 launch unit

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Central USSR

11. (S/D) **Verkhnyaya Salda NPHF and RTP** (). On (), SS-20 TEL imprints were in front of the high two-bay building in the NPHF, and an empty SS-20 TEL was at the RTP, suggesting that missile guidance/calibration had been conducted. The empty TEL had three support rings for securing the SS-20 missile canister on the TEL (Figure 3). This was the first observation of SS-20 TEL imprints at Verkhnyaya Salda NPHF, and the first time support rings have been observed on an empty SS-20 TEL.

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12. (S/D) **Yurya Mobile IRBM Base 1.** On () a probable SS-20 TEL with missile canister was in the operations area in front of a former SS-7 MRB. Also, several other SS-20-associated vehicles were in the operations area.

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13. (S/D) SS-20 field-training exercises in the Yurya Complex were as follows:

Location	Date	Remarks
FTA RA [redacted]		Prob camouflaged C3 unit with a prob camouflaged SS-20 launch unit
FTA 3C-Rvt [redacted]		Prob camouflaged C3 unit; a second TWIN EAR was 1 nm N of the RTP
		Camouflaged SS-20 launch unit

*The use of two TWIN EAR antennas on [redacted] suggests that a possible division-level field-training exercise was in progress.

Western USSR

14. (S/D) **Krolevets Mobile IRBM Base 1.** The 39th mobile IRBM base, Krolevets Mobile IRBM Base 1 (Figure 4), was under construction on [redacted] at Krolevets IRBM Launch Site 1 [redacted]. Nine SBCs and one single-bay, temporary building were in the former SS-5 launch area. One SBC and the temporary building were in tandem on a single access ramp, with the temporary building apparently inaccessible to vehicles.

15. (S/D) By [redacted] the temporary building had been dismantled, and at least three additional temporary buildings that had been constructed in tandem with three SBCs appeared to have been dismantled. In addition to the nine SBCs, three four-bay garages were in the early stages of construction. No evidence of mobile base construction was observed on coverage of Launch Site 1 on [redacted]. Krolevets Mobile IRBM Base 1 was the second mobile IRBM base in the Romny SSM Division of the Vinnitsa SRF Army.

16. (S/D) **Lutsk MRBM Launch Site 1.** On [redacted] at least six camouflaged, probable SS-20-associated vehicles were in the launch area of Lutsk MRBM Launch Site 1 [redacted]. Lutsk MRBM Launch Site 1 was assessed to be in a reduced state of readiness on [redacted] and no SS-20-associated activity has previously been identified at this facility. On [redacted] at least 14 camouflaged,

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probable SS-20-associated vehicles were in the launch area of Launch Site 1. On [] six camouflaged SS-20 TELs were in the launch area of Launch Site 1 (Figure 5). The SS-20-associated vehicles may be from Lutsik Mobile IRBM Base 1, approximately 3 nm north of the launch site. Lutsik Mobile IRBM Base 1 was first identified on imagery of [] but has not been assessed to be operational. SS-20-associated vehicles have previously been identified at two other deactivated MRBM launch positions—Yelsk SSM Launch Position 3 [] and Vselub SSM Launch Position 4 []
[]

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Missile Test Centers

Kapustin Yar Missile/Space Test Center SSM

17. (S/D) Eight SS-20-associated facilities and crew training areas were imaged during this reporting period. No significant activity was observed.

18. (S/D) **Test Complex C Site 1.** By [] the previously reported fourth and fifth bays had been added to the three-bay garage. This garage is similar to the five-bay garages under construction at Novosibirsk Mobile IRBM Base 6.

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Plesetsk Missile/Space Test Center SSM

19. (S/D) **Mobile ICBM-Associated Bases and Facilities.** All four of the mobile ICBM-associated bases—Mobile ICBM Facility 1 (MOB 1, [] Mobile ICBM Facility 2 (MOB 2, [] ICBM Launch Test Site (LTS 5, [] and ICBM Launch Test Site 6 (LTS 6, []—and four of the five mobile ICBM-associated support facilities were imaged during this reporting period.

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20. (TSR) All 42 LRPs were observed during the reporting period (Table 2). Activity included snow removal operations at the four mobile ICBM-associated bases, probable AADs mounted in many of the LRPs, and the clearing of snow to provide a stable base for TEL leveling jacks at some LRPs. In addition, MSVs were identified at two of the four mobile ICBM bases during December.

21. (TSR) **MOB 1.** All 12 LRPs at this base were observed. Clearings for or imprints from TEL leveling jacks at LRPs were identified five times. Vehicles and personnel were in the driver training area during March. In addition, on [] a long, rectangular, canvas-covered framework was among the trees at the driver training area. The framework was not present on []

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22. (S/D) **MOB 2.** All 12 LRPs at this base were observed. Most of the LRPs had areas cleared for TELs, and probable AADs were periodically seen in the LRPs.

23. (TSR) **LTS 5.** All 12 LRPs at this base were observed, and probable AADs were periodically seen in the LRPs. Clearings for or imprints from TEL leveling jacks were identified at two of the LRPs on [] and one set of clearings/imprints were identified in the calibration-associated area on [] and []. In addition, two probable MSVs, [] were observed on [] respectively.

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24. (S/D) **LTS 6.** All six LRPs at this base were observed. All LRPs had been cleared of snow, and four LRPs had probable AADs in them. On [] a probable [] MSV was outside the support area.

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25. (S/D) **Missile Handling Facility** []. Construction in support of the anticipated SS-16 follow-on continued. If the rate of construction continues, the new buildings/structures could be completed before the third quarter of 1982.

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26. (S/D) **LTS 21** []. No significant activity was observed. The canvas has not been placed on the sliding-roof framework on the extension of the east pad.

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Bryansk Guided Missile Support Equipment Plant II

27. (S/D) Components for at least 23 to 24 garages were fabricated, and components for at least 12 to 13 garages were shipped from the plant (Table 3). Although these figures suggest a reduced level of production, it should be noted that usable imagery was obtained only two times during the period because of cloud cover. This limited access precluded an adequate sampling rate for assessing component production levels with any degree of confidence.

SS-20 Command and Control

28. (S/D) Significant command-and-control developments observed during the reporting period (Table 4) included the following: the construction of a new regimental headquarters at Slonim Mobile IRBM Base 1 and Dyatlovo Mobile IRBM Base 1; the dismantlement of the Slonim MRBM Regimental Headquarters Radio Receiver/Bunker/Hard [] new construction at Krolevets IRBM Regimental Headquarters Radio Receiver/Bunker [] and Gresk MRBM Regimental Headquarters Radio Communications Transmitter Station []; considerable progress on the previously reported large building under construction near the Mozyr MRBM Division Command Post/Bunker (BE []) the construction of two lattice towers at Novosibirsk Mobile IRBM Base 1; the construction of one lattice tower at Novosibirsk Mobile IRBM Base 2; the construction of one lattice tower and the

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Table 3.
Minimum Number of SS-20 Single-Bay Garages Fabricated at and
Shipped from Bryansk Guided Missile Support Equipment Plant II

This table in its entirety is classified SECRET/NNINTEL

Dates of Usable Coverages	No of Days Between Usable Coverages	Fabricated		Shipped		
		Complete Garages*	Incomplete Garages	Complete Garages*	Incomplete Garages	
	131	0	4	6	2—3	25X1
	31	10	9—10	0	4	
		10	13—14	6	6—7	
Garages fabricated & shipped			23— 24		12— 13	25X1
Garages fabricated & shipped prior to			312—351		309—343	25X1
Garages fabricated & shipped since Apr 76			335—375		321—356	

*Includes two stationary end sections and eight sliding-roof sections.

**No usable imagery of the plant was acquired between

identification of a KY-EL-06 antenna at Novosibirsk Mobile IRBM Base 4; the construction of one tower-mounted TWIN EAR antenna and the completion of the three lattice towers previously reported under construction at Verkhnyaya Selda ICBM Headquarters Receiver/Bunker/Hard [] and the construction of two tower-mounted TWIN EAR antennas and three lattice towers at Yurya SSM Headquarters Radio Communications Receiver Station []. In addition, the previously reported, tower-mounted TWIN EAR antennas at Postavy IR/MRBM Division Headquarters Radio Receiver/Bunker/Hard [] were measured for the first time.

29. (S/D) The new regimental headquarters at Slonim Mobile IRBM Base 1 (Figure 6) is separately secured, approximately 0.5 nm north of the older existing regimental headquarters (Slonim MRBM Regimental Command Post/Bunker, []) and consists of a 25- by 16- by 12-meter, three-story, rectangular, headquarters/administration building with an unidentified probable antenna array on the roof; an 11-bay vehicle storage building; two horizontal dipole antennas, oriented 60/240 degrees toward Moscow; and two steel lattice towers, probably supporting UHF/VHF antennas. This headquarters/administration building and another identical building at Dyatlovo Mobile IRBM Base 1 represent a departure from the usual deployment of either single-story, C-shaped or two-story, irregularly shaped headquarters/administration buildings at regiment-level, SS-20 command-and-control facilities. The construction of the new regimental headquarters began in the summer of 1981 and had been completed by January 1982. It is presumed that the older existing regimental headquarters has been or will soon be phased out of operation as a command post.

30. (S/D) At Dyatlovo Mobile IRBM Base 1, a new regimental headquarters, identical to the one at Slonim, was constructed between August 1980 and January 1982. On coverage of [] two probable SS-20 MSVs in front of the 11-bay garage were the first pieces of operational SS-20 equipment observed at this base. On the same coverage, one of two steel lattice towers at this facility appeared to have a KY-EL-06 antenna atop it. A similar antenna has been identified at two other deployed mobile missile bases, Lida Mobile IRBM Base 1 and Novosibirsk Mobile IRBM Base 4.

31. (S/D) The Slonim MRBM Regimental Headquarters Radio Receiver/Bunker/Hard, which is adjacent to Slonim Mobile IRBM Base 1, has apparently been dismantled for several months. A review of imagery indicates that in July 1981 the antenna field had been dismantled, significant tree-clearing activity had occurred, and a new helicopter pad had been constructed on the facility's only hardened antenna. The removed antennas consist of two horizontal dipoles, oriented [] toward Moscow/Smolensk; two omnidirectional quadrant antennas; and two masts, probably supporting UHF/VHF antennas. The dismantling or downgrading of old regimental receivers is typical when SS-20 site conversion occurs.

32. (S/D) At the Krolevets IRBM Regimental Headquarters Radio Receiver/Bunker, new construction began between July 1981 and January 1982. By February 1982 (Figure 7), six long, rectangular, probable barracks were in various stages of construction in the antenna field, probably indicating the abandonment of the facility's communications function. In addition, numerous vehicle tracks and scattered heavy equipment at this facility indicated that the antenna feedlines, which are low to the ground, must have been removed. When operational, this facility had the capability for radio communications with Moscow, Romny, and other undetermined correspondents.

33. (S/D) The entire antenna field at the Gresk MRBM Regimental Headquarters Radio Communications Transmitter Station was taken down and rebuilt between July 1979 and March 1982. The field presently consists of two double rhombic antennas, oriented northeast; four horizontal dipoles, oriented north/south and northeast/southwest; and a mast, probably supporting UHF/VHF antennas. Additional antennas may be present. The antenna field previously consisted of three horizontal dipoles and two quadrant antennas. Two of the removed horizontal dipole antennas were oriented [] toward Smolensk, and the other removed horizontal dipole was oriented [] toward Lida. The removed quadrant antennas had an omnidirectional communications capability.

(Continued p. 16)

Table 4. Command and Control Developments at Deployed SS-20-Associated Facilities as of [REDACTED]
This table in its entirety is classified TOP SECRET RUFF

		ANTENNAS ADDED SINCE SS-20 ACTIVITY WAS FIRST OBSERVED										PRESENT ANTENNA INVENTORY										Comments									
		Active	Deactivated	Under Construction	30 Meter Tower	Lattice	YU/ELE/DI	Horizontal Arrays	Horizontal Dipole	Fishbone Antennas	Rhombic Antennas	Quadrant Antennas	Hardened Antennas	Antenna Masts	Lattice Towers (all types)	Horizontal Dipole Antennas	Fishbone Antennas	Rhombic Antennas	Quadrant Antennas	Hardened Antennas	Antenna Masts		Large C-Shaped Hq/ Admin Bldg	Small C-Shaped C&C Bldg	Rectangular Bldg Assoc w/ Small C-Shaped Bldg	Bunker Modification Yes/No	Communications Station	Communications Satellite	TWIN EAR Unit Regularly Seen		
CHITA SRF ARMY																															
Drovyannaya ICBM Cplx																															
CP/Bnk [REDACTED]	A	4												6		3										Comp	Type B*	No			
CP/Alt/Bnk [REDACTED]	A	2					2							2	1	4										No		Yes*			
Rad Rcvr [REDACTED]	A	2												3	2											Yes					
Rad Xmtr [REDACTED]	A														4		8														
Mobile Base 1 [REDACTED]	A	2	Yes											2																	
Mobile Base 2 [REDACTED]	A	2	Yes											1																	
Mobile Base 3 [REDACTED]	A	2	Yes											2																	
Mobile Base 4 [REDACTED]	A	4	Yes											4																	
Mobile Base 5 [REDACTED]	A	2	Yes											2																	
Olovyanaya ICBM Cplx																															
CP/Bnk [REDACTED]	A	3					1					3*	4	3	1	4				3*	6					Yes	Type B	No			
CP/Alt/Bnk [REDACTED]	A														2	4															
Rad Rcvr [REDACTED]	A													2	1	2*				2	5	1				No			No		
Rad Xmtr NE [REDACTED]	A														3		8				2	1				No*			No		
Rad Xmtr NW [REDACTED]	A													2	6		8			2						No			No		
Mobile Base 1* [REDACTED]	U																												No		
SS-20 constr activity abandoned in 1979																															
VINNITSA SRF ARMY																															
Mozyr MRBM Div																															
CP/Bnk [REDACTED]	A														2											Comp	Type A	No			
CP/Alt/Bnk [REDACTED]	A														4					2	3*					No			No		
Rad Rcvr [REDACTED]	A														7						4*					No			No		
Rad Xmtr [REDACTED]	A																												No		
Mobile Base 1 [REDACTED]	A		No	2											2								1	1					No		
Located 3.5 nm SW of div CP & rcvr																															
Konkovich MRBM Regt																															
CP/Bnk [REDACTED]	A																														
Rad Rcvr [REDACTED]	A						2						3		2						3	1*				Yes	No	No	No	No	
Rad Xmtr [REDACTED]	A														8				1 prob							No	No	No	No	No	
Mobile Base [REDACTED]	A		No																										No		
Mobile base collocated with rcvr & CP																															
Kozhanovich MRBM Regt																															
CP/Bnk* [REDACTED]	A																									No	No	No	No	No	
Rad Rcvr [REDACTED]	A						2						1		4						2	3	Comp	1*	No	No	No	No	No	No	
Rad Xmtr [REDACTED]	A														4						2	3				No	No	No	No	No	
Mobile Base [REDACTED]	A		No																										No		
Mobile base collocated with rcvr & CP																															
Gomel MRBM Regt																															
CP/Bnk [REDACTED]	A																									No	No	No	No	No	
Rad Rcvr [REDACTED]	A														2					2	1	3				No	No	No	No	No	
Rad Xmtr [REDACTED]	A														8						4	5*	3*			No	No	No	No	No	
Mobile Base* [REDACTED]	A		No	2											2*								Comp	Comp	Comp				No		
Rechitsa Mobile IRBM Spt Base; ants by C-shaped C&C bldg																															
Lutsk MRBM Div																															
CP/Bnk [REDACTED]	A														2						4										
Rad Rcvr [REDACTED]	A														2					2	2*										
Rad Xmtr [REDACTED]	A														5					4	2	3									
2 FORK REST ants																															
Lutsk MRBM Regt																															
CP/Bnk [REDACTED]	A																														
Rad Rcvr [REDACTED]	A														4						2										
Mobile Base 1 [REDACTED]	U																										Yes				

*See comments.
Red indicates changes since [REDACTED] the cutoff date of the updated report, [REDACTED]

Table 4 (Continued)

		ANTENNAS ADDED SINCE SS-20 ACTIVITY WAS FIRST OBSERVED										PRESENT ANTENNA INVENTORY										Comments			
		Active - Deactivated	Under Construction	30 Meter Lattice	Roof Mounted Arrays (YU-EL-01)	Horizontal Dipole	Fishbone Antennas	Rhombic Antennas	Quadrant Antennas	Hardened Antennas	Antenna Masts	Lattice Towers (all types)	Horizontal Dipole	Fishbone Antennas	Rhombic Antennas	Quadrant Antennas	Hardened Antennas	Antenna Masts	Large C-Shaped Hq Admin Bldg	Small C-Shaped C&C Bldg	Rectangular Bldg Assoc w/Small C-Shaped Bldg		Bunker Modification Yes/No Completed	Communications Satellite Station	Mobile TWIN EAR Unit Regularly Seen
Kievsky MRBM Regt CP/Bnk Rad Rcvr	A D											4				1	2								3 cylindrical storage tanks on site
Mobile Base 1 Mobile Base 2	U U																								
Romny IR/MRBM Div CP/Bnk Rad Rcvr Rad Xmttr	A A A											4			2		3								11 revetments in ant field Mar 78
Krolevets IRBM Regt CP/Bnk Rad Rcvr Rad Xmttr	A D A											6					2				No	No	No	No	
Lebedin IRBM Regt CP/Bnk Rad Rcvr	A D			1						2		1					2				Yes				
Mobile Base 1	U																								
OMSK SRF ARMY Novosibirsk ICBM Cplx CP/Bnk Rad Rcvr Rad Xmttr	A A A A	2			1					1	4	2	1				3				Comp				1 mast supports FORK REST ant
Mobile Base 1 Mobile Base 2 Mobile Base 3 Mobile Base 4 Mobile Base 5 Mobile Base 6	A A A A A U	2	Yes								2													No	1 Lattice tower has KY-EL-06 ant on top
SMOLENSK SRF ARMY Postavy MR/IRBM Div CP/Bnk Rad Rcvr Rad Xmttr	A A A	1		2				1			1	4			1		3				Comp	No	Yes	No	5 van trucks & trailers at bnk; 3 new lattice towers with 3 TWIN EAR ants
Postavy MRBM Regt CP/Bnk Rad Rcvr	A D				1*							1*					1	Comp			Comp	No	No	No	Dipole down prob temporarily as constr is underway in the area
Mobile Base	A		No																				Yes		Mobile base collocated with regt CP
Smorgon IRBM Regt CP/Bnk Rad Rcvr Rad Xmttr	A D A	2		2					1		2	2					1				Comp	No	No	No	
Mobile Base 1 Mobile Base 2	A A		No	2						1		2							Comp*					*	Occasionally seen Roof-mounted prob ants
Polotsk MRBM Regt CP/Bnk Rad Rcvr Rad Xmttr*	A D A			2					3			2					3				Yes	No	No	No	Polotsk/Disna MRBM Regt Xmttr; mast supports a FORK REST ant
Mobile Base 1 Mobile Base 2	A A		No	2						1		2					1		Comp					No	Roof-mounted prob ants
Lida MRBM Div CP/Bnk Rad Rcvr Rad Xmttr	A A A										1				2*		3				No	No	No	No	Double rhombic ant

*See comments.
Rad indicates changes since [] the cutoff date of the updated report []

Table 4. (Continued)

		ANTENNAS ADDED SINCE \$S-20 ACTIVITY WAS FIRST OBSERVED										PRESENT ANTENNA INVENTORY										Comments		
		Active - Under Construction	Deactivated Tower	30-MHz Lattice Tower	Roof Mounted Arrays (YU-EL-01) Antennas	Horizontal Dipole Antennas	Fishbone Antennas	Rhombic Antennas	Quadrant Antennas	Hardened Antennas	Antenna Masts	Lattice Towers (all types)	Horizontal Dipole Antennas	Fishbone Antennas	Rhombic Antennas	Quadrant Antennas	Hardened Antennas	Antenna Masts	Large C-shaped Hq/Admin Bldg	Small C-shaped Bldg	Rectangular Bldg Assoc w/Small C-shaped Bldg		Bunker Modification Yes-No-Completed	Communications Satellite Station
Lida MRBM Regt																								
CP/Bnk	A																							
Rad Rcvr	A																							
Mobile Base 1	U	2*		2															Comp					
Gresk MRBM Regt																								
CP/Bnk	A			3*					4*															
Rad Rcvr	A																							
Rad Xmtr	A			4		2*			1					2*										
Mobile IRBM Base 1	A																		Comp*	No	No	No	No	
Dyatlovo MRBM Regt																								
CP/Bnk	A	2		2																				
Rad Rcvr	A																							
Rad Xmtr	A																							
Mobile Base 1	U																							
Pruzhany MRBM Div																								
CP/Bnk	A																							
Rad Rcvr	A																							
Rad Xmtr	A																							
Mobile Base 1	U																							
Slonim MRBM Regt																								
CP/Bnk	A	2		2																				
Rad Rcvr	D																							
Rad Xmtr	A																							
Mobile Base 1	U																							
ORENBURG SRF ARMY																								
Verkhnyaya Salda ICBM Cplx																								
CP/Bnk	A	7		5	1																			
Hq Spt Rcvr	A	3																						
Rad Rcvr	A																							
Rad Xmtr	A						1																	
Mobile Base 1	A	2	Yes																					
Mobile Base 2	A	2	Yes																					
Mobile Base 3	A	2	Yes																					
Mobile Base 4	A	4	No																					
Mobile Base 5	U	1																	1*	No				
VLADIMIR SRF ARMY																								
Yurya ICBM Cplx																								
CP/Bnk	A	7		4	1																			
Rad Rcvr	A	3							2															
Rad Xmtr	A																							
Mobile Base 1	A	2	Yes																					
Mobile Base 2	A	2	Yes																					
Mobile Base 3	U	2	Yes																					
Mobile Base 4	U	2	No																					
Mobile Base 5	U	2																						

*See Comments.
 Red indicates changes since [] the cutoff date of the updated report []

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34. (S/D) The building previously reported under construction near the Mozyr MRBM Division Command Post/Bunker was nearly complete, with apparent construction confined to the roof. The building is [] is three stories high, and appears to be a headquarters/administration-type building with elevator shafts at two sides. The construction of this building began in September 1980. 25X1
35. (S/D) At Novosibirsk Mobile IRBM Base 1, two lattice towers, which had previously been dismantled, had been rebuilt—one by [] in the same location and the other by [] in a different location. 25X1
36. (S/D) At Novosibirsk Mobile IRBM Base 2, one lattice tower, which had been removed by [] [] had been rebuilt by [] in a different location. 25X1
25X1
37. (S/D) At Novosibirsk Mobile IRBM Base 4, one lattice tower, which had been removed, had been rebuilt in a different location by [] Also, a KY-EL-06 antenna was identified on imagery of [] 25X1
25X1
38. (S/D) At Verkhnyaya Salda ICBM Headquarters Receiver/Bunker/Hard, one mast-mounted TWIN EAR antenna, oriented southeast, had been constructed and was first observed on [] (Figure 8). Also, the three lattice towers previously under construction had been completed by [] 25X1
25X1
39. (S/D) At Yurya SSM Headquarters Radio Communications Receiver Station, two mast-mounted TWIN EAR antennas, oriented north and east, and three lattice towers have been constructed. They were first observed on imagery of [] (Figure 9). 25X1
40. (S/D) Imagery of the Postavy IR/MRBM Division Headquarters Radio Receiver/Bunker/Hard on [] was of sufficient quality to enable the first mensuration of the three previously reported sets of tower-mounted TWIN EAR antennas. One TWIN EAR antenna set was oriented [] toward Postavy MRBM Launch Site 2 [], another set was oriented [] toward the Polotsk MRBM regiment, and one antenna in the third set was oriented [] toward Postavy Mobile IRBM Base 1, while its companion antenna was oriented [] toward the Polotsk MRBM regiment. However, no TWIN EAR antennas were identified at the possible correspondents. The towers supporting these TWIN EAR antennas are 48 meters high. 25X1
25X1
25X1
25X1
25X1

REFERENCES

IMAGERY

(S/D) All applicable satellite imagery acquired from [] was used in the preparation of this report. 25X1

DOCUMENT

1. NPIC. [] RCA-01/0002/82, *Soviet Mobile Missile Summary*, [] 25X1
Jan 82 (TOP SECRET []) 25X1

*Extracted material is classified SECRET/WNINTEL.

RELATED DOCUMENT

NPIC. [] IAR-0010/80, *SS-20 Field Training Areas, USSR (S)*, Jun 80 (TOP SECRET []) 25X1
[] 25X1

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25X1

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